TimberTech®
Less Work. More Life.

DECKING & DRYSPACE™

INSTALLATION & MAINTENANCE GUIDE

DECKING | LIGHTING
RAILING | ACCESSORIES

www.timbertech.com

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Contents

General Information

Decking Product Choices 2

Installing TimberTech

Tools Required 3
Read Before You Start 3
Material Requirements 4
Gapping Requirements 4
Fastening Methods 5-6

Installation Guidelines

Solid Planks - Face Fastening

Earthwood Evolutions, Earthwood Evolutions I Terrain, TwinFinish,
ReliaBoard, DockSider 6-7
XLM 8

Trimming a TimberTech Deck

Fascia Boards 8
Stair Risers 8

Grooved Planks - Hidden Fastening System

CONCEALoc Hidden Fastener 9-10

Cortex Hidden Fastening System 11
L-Brackets 12-13

Care & Cleaning

Storage & Handling 14
Basic Cleaning 14-15
Stains & Scratches 15

Technical Data

Code Listings 16
Loading Conditions 16
Material Properties 17-18

DrySpace

Kit & Bulk Components 19
Installation Guidelines 20-21

Warranty

Warranty Information 22-25
Warranty Card 26

Access Installation Resources 24/7.

Installation guides and videos are available on our web site at www.timbertech.com/installation.

Do you need help with your installation?

TimberTech strives to provide the very best services to our customers. We have an excellent customer service team that is here to help you with your installation questions. If you need help you can call customer service at 1-800-307-7780 or visit www.timbertech.com/installation to view TimberTech installation videos.

Decking Product Choices

With a wide selection of plank styles and profiles – available in a variety of colors, TimberTech decks are easy to design, build and maintain.

DECKING PLANKS		Cedar	Grey	Redwood	Brown Oak	Silver Maple	Brick	Brownstone	Slate	Pacific Rosewood	Pacific Teak	Pacific Walnut	RiverRock	SandRidge	Mountain Cedar	Harbor Stone	Harvest Bronze	RusticBark	Walnut Grove	Wt.* Lbs/Each	Qty/ Unit
XLM® Solid	1" x 5.430" x 16', 20'												X	X	X	X	X	X	X	29, 36	64
XLM® Grooved	1" x 5.430" x 12', 16', 20'												X	X	X	X	X	X	X	20, 29, 35	64
Earthwood Evolutions® Solid	0.94"x 5.360" x 16', 20'						X	X	X	X	X	X								41, 51	64
Earthwood Evolutions® Grooved	0.94" x 5.25" x 12', 16', 20'						X	X	X	X	X	X								29, 39, 49	64
Earthwood Evolutions® Terrain Grooved	0.94" x 5.25" x 12', 16', 20'				X	X														24, 32, 40	64
Earthwood Evolutions® Terrain Solid	0.94" x 5.25"x 16'				X	X														32	64
TwinFinish® Solid	1" x 5.360" x 16', 20'	X	X	X																47, 58	64
TwinFinish® Grooved	1" x 5.360" x 12', 16', 20'	X	X	X																34, 45, 56	64
ReliaBoard® Solid	0.94"x 5.360"x 12',16', 20'	X	X																	29, 37, 48	64
DockSider® Solid	1.25" x 5.5" x 12', 16', 20'	X	X																	45, 60, 75	48
DECKING ACCESSORIES																					
Earthwood Evolutions® Fascia	.560" x 12" x 12'						X	X	X	X	X	X									
Earthwood Evolutions® Riser	.560" x 7.250" x 12'						X	X	X	X	X	X									
TwinFascia®	.560" x 12" x 12'	X	X	X																45	30
TwinRiser®	.560" x 7.250" x 12'	X	X	X																27	42
XLM® Fascia	.560" x 12" x 12'												X	X	X	X	X	X	X	30	30
XLM® StairRiser	.560" x 7.250" x 12'												X	X	X	X	X	X	X	18	42
CONCEALoc® Fasteners - Retail Carton	100 sq. ft. coverage																			4	8
CONCEALoc® Fasteners - Bulk Bucket	1000 sq. ft. coverage																			43	1
CONCEALoc® Fasteners - Gun Pail	500 sq. ft. coverage																			20	1
CONCEALoc® Replacement Screws	50/Retail Pack																			0.4	20
CONCEALoc® L-Bracket	50/Retail Pack																			1	10
CONCEALoc® Router Bit	1/Retail Pack																			0.5	6
Cortex® Hidden Fastening System	100 lin ft.	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	3	6
TOPLoc™ Face Fastener - Retail Carton**	100 sq. ft. coverage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4	8
TOPLoc™ Face Fastener - Bulk Bucket**	500 sq. ft. coverage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	19	1
TOPLoc™ Fascia Fastener**	100 ln. ft. coverage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	15
TOPLoc™ Stainless Steel	85 sq. ft. coverage	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	4	8

* Weights are rounded to nearest lb.
**TOPLoc is available in Cedar, Grey, Rosewood, Teak, and Walnut but is made to match all color profiles.
***Cortex is not for Reliaboard or Earthwood Evolutions Terrain.

TimberTech recommends visiting your local Dealer to view actual profiles and color selections.

TimberTech covers the alternative decking market

To get information on other TimberTech products visit timbertech.com or ask your dealer for these installation guides:

- **TimberTech Railing & DeckLites® Installation & Maintenance Guide**
- **TimberTech FenceScape® Installation & Maintenance Guide**

These installation guidelines will direct you through the process of installing TimberTech products. Most installers will find this process similar to the installation of a wood deck. However, there may be areas that differ from what you are used to.

These installation methods are recommended by TimberTech, but they may not cover every installation scenario you may encounter. Since each installation is unique in its performance requirements, the ultimate installation method used is the sole responsibility of the installer. TimberTech recommends that all designs be reviewed by a licensed architect, engineer or local building official before installation. Make sure your plans meet local building codes before you begin the installation.

Tools Required

TimberTech planks can be installed with a minimum number of readily available tools. However, many other tools are available that can provide even greater efficiency and ease of installation. All tools should be used per applicable manufacturers' instructions. Some of the basic tool requirements:

- Cordless Driver
- Chalk Line
- Tape Measure
- Jig Saw
- Carpenter Square
- Spacing Tools
- Circular Saw
- Safety Glasses

Use the jigsaw to cut around obstructions such as posts. A power miter saw can also be very helpful during installation. When cutting XLM planking with a hand held circular saw it is recommended that a thin kerf 40-tooth alternate top bevel finish blade be used to achieve the cleanest cuts. For a power miter or compound power miter saw a fine finish alternate top bevel blade is also recommended. When working with TimberTech products be sure to wear proper clothing and safety equipment. Safety glasses should be used during the entire installation process.

STOP! Read this section before you start!

For most current care and cleaning, technical information and more, visit www.timbertech.com.

Floorizon – For information on Floorizon please visit www.timbertech.com and click on Installation Resources for downloadable instructions.

XLM –
- TimberTech does not recommend the use of rubber or vinyl products (welcome mats, planters, etc.) on XLM deck planks. A reaction can occur that causes discoloration of the decking under the rubber/vinyl product. This is a common caution for vinyl decking products.
- Do NOT nail XLM Planks

Walking Surface – TimberTech planks are intended to be installed embossed side up. The unembossed surface is not to be used as a walking surface. This applies to all decking surfaces.

Directional Notch – TimberTech's surface on TwinFinish, ReliaBoard, Earthwood Evolutions, DockSider, TwinFascia and TwinRiser boards is directional in manner. A notch has been added to one side of the planks. When installing planks, this marked edge must be laid to the same side for the entire installation for a consistent appearance. Similarly, TimberTech's TwinFascia board and TwinRiser have one long beveled edge on the front and back. To ensure a consistent appearance from board to board, the beveled edge must be laid to same side. If you rip a piece, be sure to note the location of the bevel. See individual plank installation instructions.

Static Electricity – Static build-up is a natural occurring phenomenon that can occur with many plastic products. It could occur with TimberTech products under the right environmental conditions.

Cantilevering – TimberTech XLM, Earthwood Evolutions, TwinFinish, ReliaBoard, and DockSider can be cantilevered a maximum of 1".

Color and Grain Patterns – Our wood-plastic composite deck boards are designed to mimic the look of real wood, and like real wood, there will be a slight difference in color and grain pattern from board to board. This is intentional and part of the manufacturing process, giving TimberTech wood-plastic composite decking the most realistic and wood-like appearance possible. This variation is purely aesthetic and does not or will not affect the performance of the product. Our deck boards are designed to naturally weather over time and the surface pattern will weather to a consistent color. Most of the weathering process will be complete within the first year of the deck's life.

Safety – TimberTech offers products that meet the American with Disabilities Act (ADA) guidelines for slip-resistant walking surfaces, and unlike traditional wood, TimberTech is splinter-free.

Note – TimberTech is **NOT** intended for use as columns, support posts, beams, joist stringers or other primary load-bearing members. TimberTech must be supported by a code-compliant substructure. While TimberTech products are great for deck re-planking (removing old deck surface planks and installing TimberTech on code-compliant substructure), TimberTech planks **CANNOT** be installed on top of existing deck planks .

Routing – TimberTech TwinFinish, DockSider and ReliaBoard may be routed for accents such as adding an edge radius. **XLM and Earthwood Evolutions SHOULD NOT** be routed aside from routing a groove in the side of solid planks for start/stop of CONCEALoc.

Extreme Heat Warning

Be aware of excessive heat on the surface of TimberTech products from external sources such as but not limited to fire or reflection of sunlight from energy efficient window products. Low-emissivity (Low-E) glass can potentially harm TimberTech products. Low-E glass is designed to prevent passive heat gain within a structure and can cause unusual heat build-up on exterior surfaces. This extreme elevation of surface temperatures, which exceeds that of normal exposure, can possibly cause TimberTech products to melt, sag, warp, discolor, increase expansion/contraction, and accelerate weathering.

Current or potential TimberTech customers that have concerns about possible damage by Low-E glass should contact the manufacturer of the product which contains Low-E glass for a solution to reduce or eliminate the effects of reflected sunlight.

Excessive Construction Debris

It is important during construction, the deck's surface stay clear from excessive build-up of dirt, sand, and dust from tile, concrete, landscape blocks, or any other masonry products. If these materials are not removed immediately, the deck surface will become difficult to clean and foot traffic can potentially damage the deck's surface finish.

If a build-up does occur please refer to the Care and Cleaning section in TimberTech's installation guide.

Calculating Material Requirements

To determine how much TimberTech decking material you will need, start by calculating the square footage of your deck surface by multiplying length by width. Once you know this number, divide it by the numbers provided below for 12' planks, 16' planks and 20' planks.

When calculating the amount of decking you will need, it is recommended that you add roughly 10% to the total for a scrap factor.

XLM, Earthwood Evolutions, TwinFinish, ReliaBoard Plank, and DockSider

Once you know the square footage number, divide it by 5.5 for 12' planks, 7.3 for 16' planks and 9.1 for 20' planks.

Example: Length x Width = Total Square Footage

Square Footage ÷ by 5.5 (12'), 7.3 (16') or 9.1 (20') = Planks Needed (Round the number up)

Planks Needed + 10% (Scrap Factor) = Final Number of Planks Needed (Round the number up)

Working With TimberTech Planks

Expansion and Contraction

TimberTech deck planks will experience expansion and contraction with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. Fastening the deck planks according to the gapping requirements noted in the following table accommodates for this movement.

Changes in length are most significant during the installation process, and should be accounted for if working in extreme temperatures. A good example would be cutting your planks during a hot afternoon, letting them sit outside overnight in the cool air and then installing them the next morning. Chances are, you will notice a certain amount of contraction. The best way to minimize this problem is to fasten your planks as soon after cutting as possible.

Gapping Requirements For All TimberTech Planks

- Side to side plank gapping must be minimum 1/8" to maximum 5/32"
- Gap planks a minimum 1/8" to 3/16" side-to-side
- For California fire requirements, please refer to page 17.
- Allow 3/16" minimum gap where the planking meets any adjoining structure or post.
- Follow these butt joint gapping guidelines for all TimberTech planks:

Butt Joint Gapping Requirements		
32° F and below	33° F to 74° F	75° F and above
3/16" gap	1/8" gap	1/32" gap

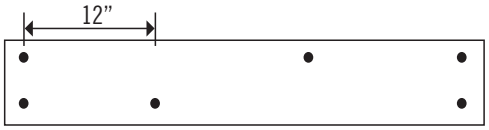
Fastening Methods

TimberTech Fascia Boards

Using screws with proper installation of TimberTech Fascia provides the best long-term holding. TimberTech recommends the use of TimberTech TOPLoc Fascia Fasteners for best results. Refer to gapping requirements on page 4 for proper installation.

For use with TOPLoc Fascia Fasteners

- Using the TOPLoc Fascia Bit, pre-drill 2" from the top and bottom alternating a maximum of 12". It is recommended that screws are evenly spaced for the best look.



- Set fascia in place being sure to follow proper gapping requirements
- Drive TOPLoc fascia fastener 90 degrees with the fascia surface so that the screw head is flush with the surface. **Do not completely torque down screw;** screw should serve as a hanging mechanism to allow for expansion and contraction in the fascia. This will help to prevent any undesired consequences to movement in the fascia.
- Continue fastening in pattern described being sure to work left to right or right to left. This will ensure flatness in the fascia.

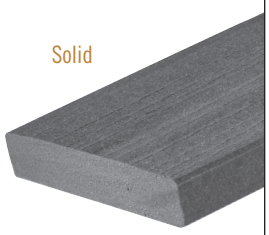
For Alternative Fasteners

- Use a #10 countersink with a 3/16" drill bit in combination with a #8 stainless steel flat head screw at least 1-1/2" length.
- Drive the countersink about 1/8" below the surface then use a 7/32" drill bit to enlarge the through hole in the fascia. The through hole must be 1/32"- 1/16" larger in diameter than the screw shank as the head of the screw allows.
- The oversized hole with countersink will allow fastener to be flush, but not tight, to permit movement.
- Holding the fascia tight to the framing material, drive the screw through the center of the hole and just flush with the surface at the fascia. Do not fully tighten the screw.
- Screw 2" from the top and bottom every 24".
- Refer to gapping requirements on page 4.
- Fascia may be installed to cover the ends of planks on the deck surface. Another method is to install the fascia under the cantilevered deck surface, with the exception of Floorizon.

TimberTech Solid Planks

TimberTech recommends the use of TimberTech TopLoc Face Fasteners for solid plank installations. Pre-drilling is required when within 1-1/2" of the ends of the plank and for temperatures below 45 degrees Fahrenheit to avoid splitting and screw shear (except XLM). Alternate fasteners are stainless steel or high-quality coated composite deck screws.* **Fasteners should be installed perpendicular to the deck surface and driven flush; do not overdrive or splitting may occur. Always double joists at butt seams.**

Solid



Do not toe screw deck planks as this will cause splitting.

XLM, Earthwood Evolutions, TwinFinish, and ReliaBoard Plank: Use TOPLoc Face Fasteners or a minimum #8 x 2-1/2" stainless steel or other high-quality coated composite deck screws.*

DockSider: Use TOPLoc Stainless Steel or a minimum #8 x 3" stainless steel or high-quality coated deck screws.*

TimberTech does not recommend using nails, however, if nails are to be used, use stainless steel or high-quality coated nails.* Small headed ring shank or casing nails provide minimal fastener exposure. Extreme caution must be used. Do not overdrive the nail – it could cause the planks to split – especially at the ends. Nails should be driven so that the head is flush with the plank surface.

- Do **NOT** nail XLM planks.

*Compliant with treated lumber.

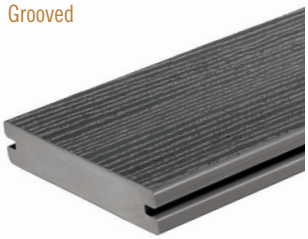
Nails offer time savings but may loosen over time with the expansion and contraction of the entire deck system (joist and planking). This may cause the nails to pop up from the deck surface, which will require re-setting the nails. Protruding nail heads are one source of the most common injury to bare feet on decks.

Fastener Mushrooming: This may occur when a non-composite deck screw is driven into the decking. It can be greatly reduced or eliminated by using a screw designed for composite lumber. If mushrooming occurs, lightly tap the material back into the hole of all planks, except Earthwood Evolutions. When installing Earthwood Evolutions, using TOPLoc reduces chance of mushrooming. If using alternative fasteners or other composite screws, we recommend pre-dimpling the plank by drilling a hole slightly smaller in diameter than the screw head and as deep as the screw head before driving

TimberTech Grooved Planks

XLM, Earthwood Evolutions, TwinFinish Grooved Planks: Use TimberTech CONCEALoc Hidden Fasteners. Follow the directions on the CONCEALoc bucket, box or page 10 of this guide.

Grooved



TimberTech Solid Planks: Earthwood Evolutions™, TwinFinish®, ReliaBoard™, and DockSider™

Visit www.timbertech.com/installation to view TimberTech installation videos.

Fastening Guidelines for Solid Planks - see page 5.

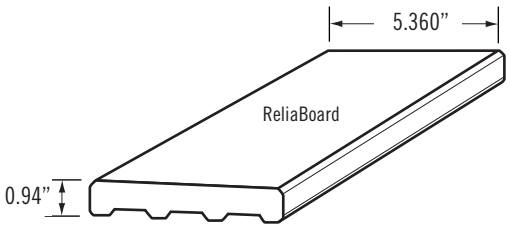
Important Information

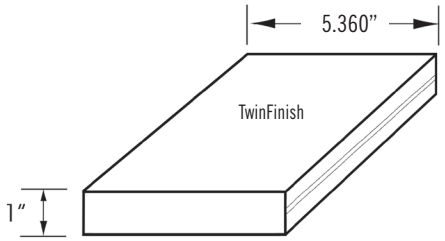
- TimberTech planks are intended to be installed embossed side up. The unembossed surface is not to be used as a walking surface. This applies to all decking surfaces.
- The serrated bottom side of TwinFinish is great for accents like benches and flower boxes.
- In areas with obstructed airflow such as roofs and on-grade applications, a minimum of 1-1/2" sleeper system supported by and connected to the substructure over which the deck is built.
- To aid water run-off, the deck should slope 1/2" for every 8' away from the house.

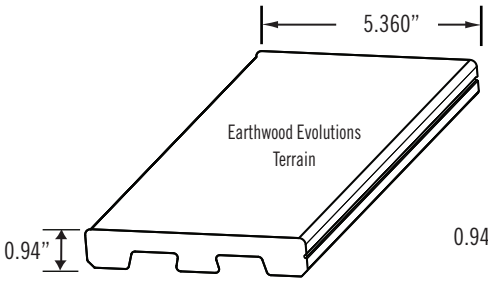
Standard Joist Spacing

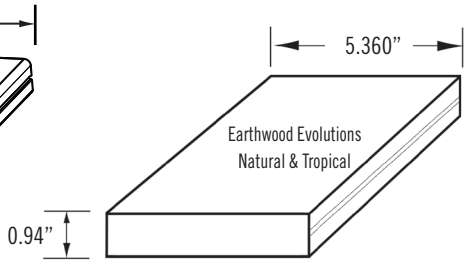
TwinFinish			
	90° Angle	30° Angle	45° Angle
100psf	20"	18"	16"
ReliaBoard , Earthwood Evolutions, EE Terrain			
100psf	16"	14"	12"
DockSider			
	90° Angle	30° Angle	45° Angle
100psf	24"	24"	24"

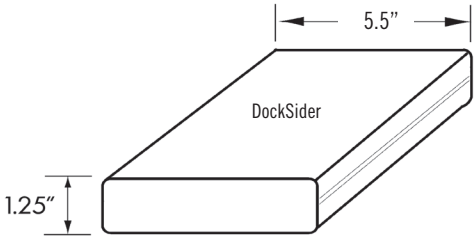
Special conditions will require an engineering inspection and/or reduced spans. Always consult local building codes.







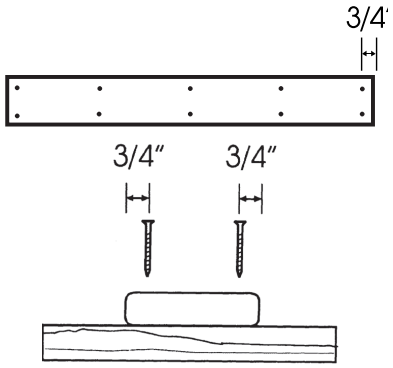




Solid Plank Installation Instructions

- Install from the outside edge of the deck and work toward the house.
- Fasten 3/4” from the outside edge of each plank, using two screws per joist including end joints.
- For gapping requirements, see page 4.
- The ends of the planks must fall on a joist. Always double joists at butt seams. Do not toe screw deck planks as this will cause splitting.
- Always Install fasteners perpendicular to plank surface and drive flush. Do not overdrive or splitting and mushrooming may occur.
- Pre-drilling is required when within 1-1/2” of the ends of the plank and for temperatures below 45 degrees Fahrenheit to avoid end splitting and screw shear (except XLM).

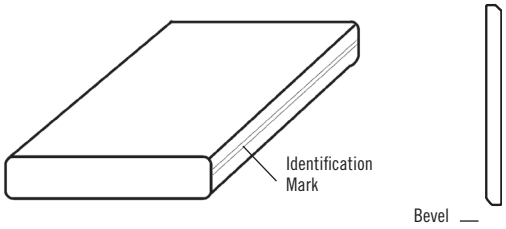
TOPLoc Face Fasteners are recommended for best results. Further instructions available in TOPLoc Package.



Directional Notch

TwinFinish, ReliaBoard, DockSider, Earthwood Evolutions, TwinFascia and TwinRiser Boards

Some TimberTech product surfaces are directional in manner. A notch has been added to one side of the planks. When installing planks, this marked edge must be laid to the same side for the entire installation for a consistent appearance. The TwinFascia board has one long edge beveled on the front and back. To ensure a consistent appearance from board to board when installing the TwinFascia, the beveled edge must be laid to the same side. If you rip a piece of TwinFascia be sure to note the location of the bevel on the ripped piece to ensure consistency.

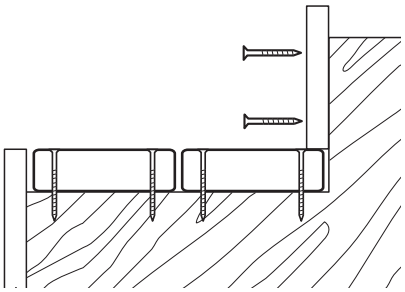


Stair Installation

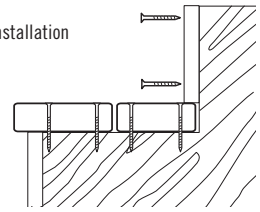
TwinFinish, ReliaBoard, DockSider, Earthwood Evolutions, and TwinRiser Boards

TimberTech does not recommend installing planks on steps without a riser board.

- Stairs should be constructed per local code requirements.
- Ensure the stringer step is at least the depth of two full planks plus a 1/8” to 3/16” gap between planks.
- For gapping requirements, see page 4.
- Ensure there is at least one stringer for support in the middle of the stair span. Maximum stringer spacing for stairs is 12” on-center.
  Maximum stringer spacing for ReliaBoard and Earthwood Evolutions | Terrain is 9” on-center.
- Attach a TimberTech TwinRiser board to the front of the bottom step. Cut the TwinRiser 1-1/4” for DockSider, 1” for TwinFinish, 15/16” for ReliaBoard and Earthwood Evolutions.
- Place the TwinRiser board directly on top of the last plank installed for the previous step to create the next step. Repeat the process above.



Optional Stair Installation



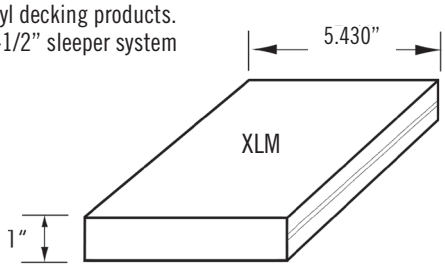
TimberTech: XLM® Plank

Visit www.timbertech.com/installation to view TimberTech installation videos.

Fastening Guidelines For XLM Solid Planks - see pages 5.

Important Information

- TimberTech planks are intended to be installed embossed side up. The unembossed surface is not to be used as a walking surface. This applies to all decking surfaces.
- TimberTech does not recommend the use of rubber or vinyl products (welcome mats, planters, etc.) on XLM deck planks. A reaction can occur that causes discoloration of the decking under the rubber/vinyl product. This is common caution for vinyl decking products.
- In areas with obstructed airflow such as roofs and on-grade applications, a minimum of 1-1/2" sleeper system supported by and connected to the substructure over which the deck is built.



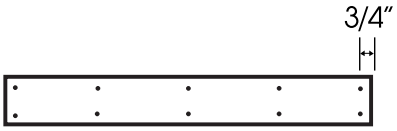
Standard Joist Spacing

XLM Plank			
	90° Angle	30° Angle	45° Angle
100psf	16"	12"	12"

End to End Gapping Recommendations

TimberTech XLM Planks are vinyl-based, so a certain amount of expansion and contraction is natural with significant temperature changes (refer to the gapping recommendations chart on page 4).

XLM Installation Instructions



- Install planks from the outside of the deck and work toward house.
- Fasten 3/4" from outside edge of each plank, using two screws per joist including end joists.
- For gapping requirements, see page 4.
- For solid planks, always double joists at butt seams. Do not toe screw deck planks as this will cause splitting.
- Install fasteners perpendicular to plank surface and drive flush. Do not overdrive screws.
- When cutting XLM planking with a hand held circular saw, a thin kerf 40-tooth alternate top bevel finish blade is recommended to achieve the cleanest cuts. For a power miter or compound power miter saw, a fine finish alternate top bevel blade is also recommended.

Installing Stairs

- Stairs should be constructed per local code requirements.
- Maximum stringer space is 10" for XLM.
- See page 9 - Solid Plank Stair Installation Steps.
- Use XLM Riser Board for riser installation.

Installing XLM Fascia - see page 5.

Trimming a TimberTech Deck

Visit www.timbertech.com/installation to view TimberTech installation videos.

TimberTech Fascia Boards

TwinFascia®

- Cedar, Grey, and Redwood
- All colors available in two surface choices.
- 12' lengths – 9/16" thick by 12" wide.

Earthwood Evolutions Fascia

- Brick, Brownstone, Slate, Pacific Rosewood, Pacific Teak, Pacific Walnut, Silver Maple and Brown Oak.
- 12' lengths – 9/16" thick by 12" wide.

XLM Fascia

- Harbor Stone, Harvest Bronze, Mountain Cedar, RiverRock, SandRidge, RusticBark and Walnut Grove.
- All colors available in two surface choices.
- 12' lengths – 9/16" thick by 11.7" wide.

TimberTech Stair Risers

- Use as a riser for stairs.
- Can also be used as a fascia board for a 2x8 rim joist.
- Fasten the same as TwinFascia. See fastening guidelines on pages 5-6.
- 12' lengths and 9/16" thick x 7-1/4" wide.

TwinRiser®

- Cedar, Grey, Redwood

Earthwood Evolutions Riser

- Brick, Brownstone, Slate, Pacific Rosewood, Pacific Teak, Pacific Walnut

XLM StairRiser

- Harbor Stone, Harvest Bronze, Mountain Cedar, RiverRock, SandRidge, RusticBark and Walnut Grove.

CONCEALoc™ Hidden Fasteners and L-Brackets for use with TimberTech Grooved Planks - Earthwood Evolutions™, TwinFinish® and XLM®

Visit www.timbertech.com/installation to view TimberTech installation videos.

CONCEALoc Accessories

- CONCEALoc Hidden Fasteners – retail box for 100-square-foot coverage or bulk bucket for 1,000-square-foot coverage. Includes Stainless Steel screws.
- CONCEALoc Gun Pail – 500-square-foot coverage for use with the fastener installation gun sold separately by TigerClaw. Includes quality coated pneumatic fasteners. Stainless Steel fasteners for coastal applications available through TigerClaw.
- L-Bracket – avoid face-screwing by using the L-Bracket on first and last boards or as a butt seam clip to ensure a fastener-free surface.
- CONCEALoc Router Bit – cut the correct groove dimension on a solid plank for a perfect CONCEALoc fastener fit – even allows for cutting an installed plank over a joist
- CONCEALoc screw packs available through www.timbertechstore.com

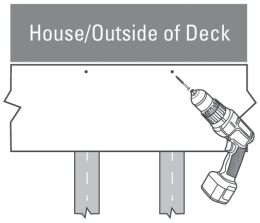
Important Information

- Warning! Parts have sharp points and edges. Use caution when handling and installing. Wear safety glasses at all times.
- In areas with obstructed airflow such as roofs and on-grade applications, a minimum of 1-1/2" is required.
- Sleeper system must be supported by and connected to the substructure over which the deck is built.

CONCEALoc Hidden Fastener Installation Instructions

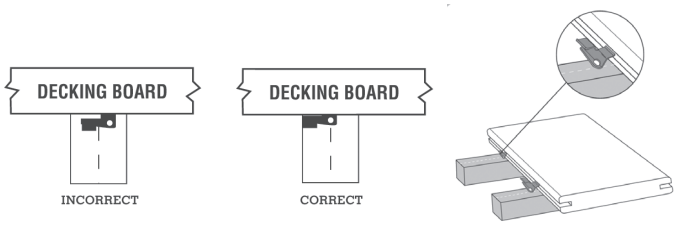
1 Install the First Plank

- Pre-drill with 5/32" drill bit and fasten outer edge of the first plank at each framing support 1" from the edge using TOPLoc or a #8 x 2-1/2" stainless steel or other high-quality coated deck screws. For a complete fastener-free surface, the L-Bracket can be used on first and last boards.



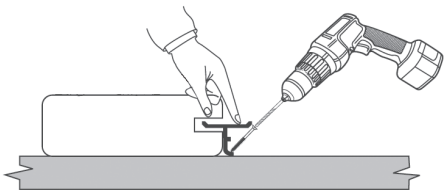
2 Position CONCEALoc Fasteners

- Fully insert the CONCEALoc fastener into grooved edge of plank. Screw hole should be lined up with the center of support joist.



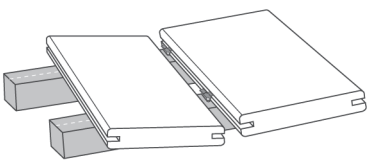
3 Install CONCEALoc Fasteners

- Install provided screw at 45° angle through the fastener and into the joist while applying pressure on the fastener.
- Install one fastener and screw at each joist.
- Make sure fastener is in full contact with edge of plank and the screw is holding the fastener down tight to the deck board.

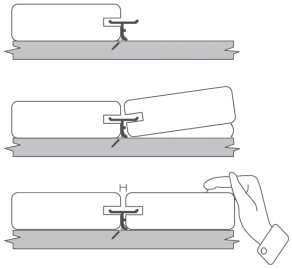


4 Complete Installation

- Place the next plank into position against the fasteners. Slightly raise the outer edge of the plank being installed and slide it onto the fastener until the plank contacts the spacer tab. When properly installed the inserted plank should be in contact with the bent-forward spacer tab at the left end of the clip. To achieve this use a scrap piece of decking at least 24" in length and use it as a tamping block to drive the plank further onto the clip and the screw will fully engage the plank to the spacer tab if not already in contact. Do not use a hammer or damage to the edge of the plank may occur.

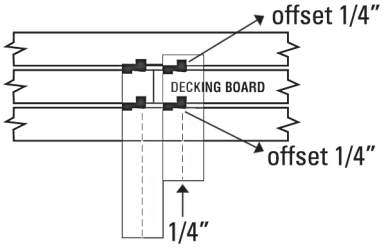


- The last plank will need to have the outside edge attached using the method described in Step #1. It may be necessary to rip the last plank to fit.



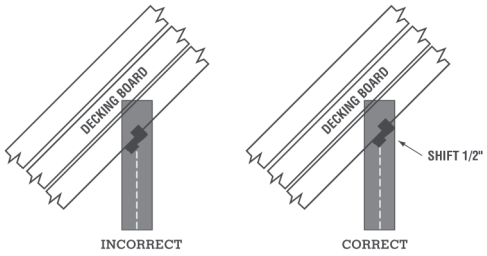
5 How to Install at Butt Joints (unles using TimberTech L-Bracket)

- **Joists at butt joints must be doubled up for proper fastener attachment.**
- **Install fasteners as detailed below. Note that the two clips on the right are shifted approximately 1/4" to the right of center on the joists. If this is not done the spacer tab may fall within the gap of the butt joist.**



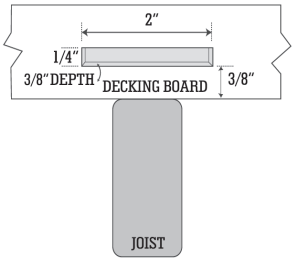
6 How to Install on Diagonal

- When the deck is located in a corner of the house, start with small triangular piece of decking in the corner and work your way out.
- Offset the clip 1/2" to the right of center line of the joist, so screw will not exit the side of the joist when driven.



7 How to Replace a Plank

- Make two parallel cuts down the center of the board to be replaced, then remove the center piece.
- Using a small pry bar, remove the remaining pieces of decking from the tabs.
- Using a reciprocating saw, remove the tabs on the side of the board with the screw heads showing.
- Position new board into place, and drive onto remaining tabs.
- Once the board is set into position, secure the loose edges with stainless steel or high-quality coated deck screws.



8 To use CONCEALoc Hidden Fasteners with TimberTech Solid Planks

Create a 2" long groove on the edge of the plank at every joist.

- Use TimberTech's CONCEALoc Groove Cutting Router Bit or a Freud model #56-112 or Bosch model #85610M 1/4" slot cutting bit.
- Flip the plank over and start the groove 3/8" off the bottom of the plank.
- Set the depth of the cut from 7/16" to 1/2"deep.

Note: Be sure to ID the side of the plank that has the directional notch; the planks with IDs should be installed to the same side. See Directional Notch on page 8.

ReliaBoard cannot be grooved. It must only be face fastened. Grooving ReliaBoard will void the warranty.

Do Not Use CONCEALoc Hidden Fasteners or L-Brackets for stair installation.

Cortex® Hidden Fastening System

Visit www.timbertech.com/installation to view TimberTech installation videos.

Cortex® Hidden Fastening System Installation Instructions

Suggested Drills:
Corded drill with ½" chuck
Cordless drill with ½" chuck and 18V battery

NOTE: Impact Drivers are not recommended when using TimberTech Cortex.

1 Drive Screw

- Using Setting Tool provided, drive screw at medium or high speed until it disengages at the proper level below the deck surface.
- Drive at one continuous speed – do not slow down.

2 Install Deck Screws into Joists

- Install two screws into decking at each joist.
- Maximum spacing between each row of screws should be 16" on center.

2 Install Plug

- Place plug into cored hole and gently tap flush with deck surface.

Important Information

- The Cortex Setting Tool must be used to set the Cortex screw to the proper depth.
- The Cortex fastener must be driven perpendicular to the deck surface for proper fit and ideal finished look.
- The cored hole must be free of debris or moisture. Use a smooth hammer head to set the Cortex plug.
- The interaction between the deck board, screw, and plug is essential. Use of non-Cortex Screws or non-Cortex plugs will nullify the warranty.

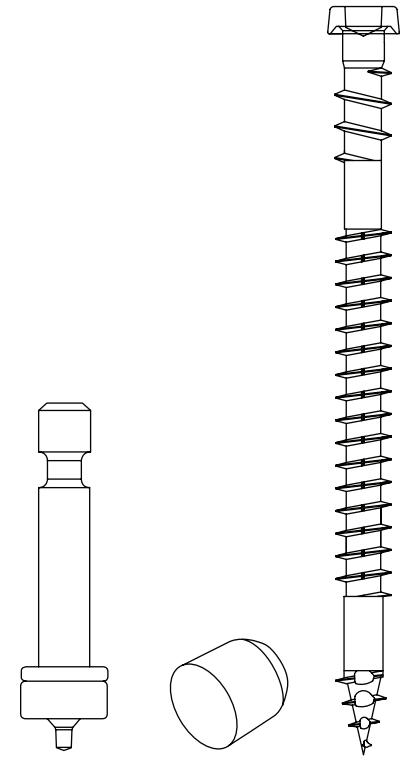
End and Edge Distance Minimums

- Predrilling is required when installing Cortex fasteners less than 1" from the end and 1" from the edge of a TimberTech deck board.
- Predrilling is also required at butt joints. Common building practices dictate that you "sister" an additional joist at your butt seam connections.
- Predrilling should be done with a 5/32" drill bit to create the proper pilot hole.

Restricted Cortex Uses

The TimberTech Cortex System is designed for traditional elevated deck surfaces. The following applications require a different fastening method for further instructions:

- Sleeper systems: Framing rests directly on the ground or roof deck.
- For attaching fascia boards. TimberTech TOPLoc should be used in this application.
- Docks or decks with framing members in constant contact with saltwater.
- Restricted airspace when there is less than 12" of clearance on 3 sides of the deck.
- Deck materials OTHER than 1" standard thickness (usually labeled as 5/4").

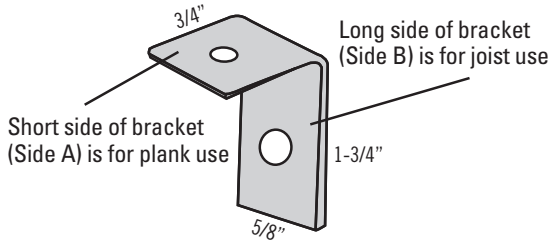


L-Bracket

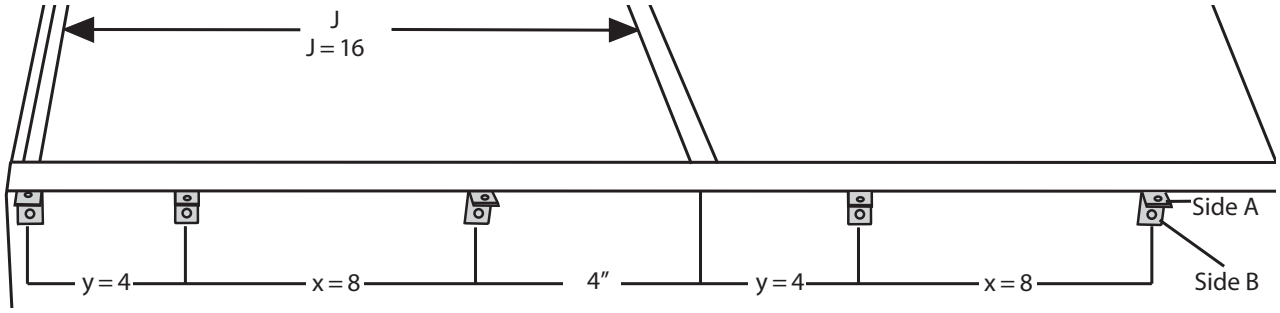
Visit www.timbertech.com/installation to view TimberTech installation videos.

L-Bracket Installation Instructions

TimberTech L-Bracket Clips are designed for use on the first and last planks when installing TimberTech decking (NOTE: The L-Bracket Clip is not for use with TimberTech ReliaBoard.™) Locate and install one L-Bracket at the start and end of the plank in the corner where the joist meets the rim joist. Then install two clips in every joist bay spaced where x = J/2 and y = J/4 where (J) is the center to center spacing of the joist.



Clip Space Diagram

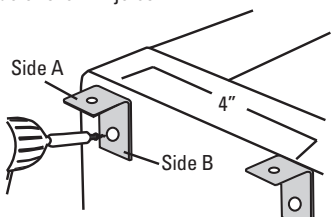


When Installing on First Plank as a "Start Clip"

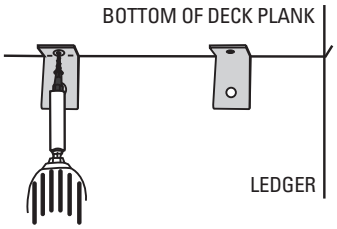
TimberTech recommends starting from the outside and working your way towards the house. This way, if the last board needs to be ripped, it will be less visible.

Option A: Start with the first plank overhanging the rim joist

1. Use the 1 1/2" joist screw provided to install the L-Bracket into the outside of the rim joist.



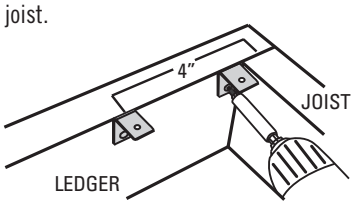
2. Then use the 3/4" plank screw to attach the L-Bracket to the plank.



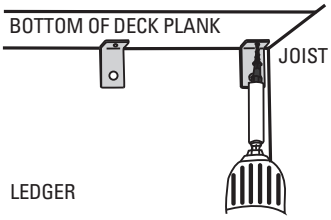
NOTE: Refer to "clip spacing diagram" above for proper clip spacing.

Option B: Start with the first plank flush with the outside of the rim joist

1 Use the 1 1/2” screw provided to install L-Bracket into the inside of rim joist.



2 Use the 3/4” screw to attach the L-Bracket to the underside of the plank.



NOTE: Refer to “clip spacing diagram” above for proper clip spacing.

When Installing on Last Plank as a “Stop Clip”

To use the L-Bracket on the last board, you must have sufficient access to the underside of the deck. This is so you can attach each L-Bracket into the underside of the plank. Once the other planks are installed, you will not be able to access the underside of the last plank from above. In general, you need several feet of clearance from the ground below to get underneath and attach the L-Bracket to the plank.Follow the same installation and spacing instructions as above.

Care & Cleaning

With proper installation and care, TimberTech products will provide years of outdoor living pleasure.

For most current recommendations, visit http://www.timbertech.com/warranty-and-care/care-and-cleaning/default.aspx

Storage

Store TimberTech products under cover to maintain a clean surface. If stored outdoors, they must be covered with a non-translucent material.

- All products should be stored flat and on a dry surface.
- Stack units with banding and bottom supports aligned.

Handling

Although all TimberTech planks are made with low-maintenance materials, each plank's unique features require special care and handling to ensuring lasting beauty.

To maintain the beauty of TimberTech products please follow these important guidelines when moving and working with TimberTech:

- Never dump TimberTech materials when unloading.
- When carrying TimberTech planks, carry on edge for better support.
- Do not slide planks against each other when moving them. When removing them from the unit, lift the planks and set them down.
- Do not slide tools or drag equipment across the top of the planks during construction.
- Keep the surface of the planks free of construction waste to prevent damage to the planks.

Discarding Scrap Product

Scrap can be discarded with normal construction debris.

Care & Cleaning (All products unless otherwise noted)

Basic Cleaning Recommendations -- Floorizon, TwinFinish, ReliaBoard, DockSider and BuilderBoard

Although TimberTech products are low-maintenance, TimberTech recommends periodic cleaning of your deck to help maintain the beauty of the product. For best results a cleaner like eco-friendly Corte Clean (www.corteclean.com) is recommended. Follow the manufacturers' application instructions.

A power washer can be used when cleaning TimberTech products. The recommended maximum pressure is 1500 psi for TimberTech decks. A fan tip nozzle should be used along with the proper cleaning product. Spray in the direction of the brush/grain pattern to avoid damaging the product. Use caution not to damage the material and always take the proper safety precautions when operating a power washer.

To remove product identification printing from the side or bottom of a TimberTech deck plank use Isopropyl Alcohol (rubbing alcohol).

Basic Cleaning Recommendations -- XLM

For periodic maintenance cleaning, we recommend power washing the deck boards. For best results, use a maximum of 3000psi gas powered pressure washer with 25° fan tip. Hold the power wash wand at approximately a 30° angle as illustrated below to flush the board surface. Spray in the direction of the length of the plank, not across or surface damage may result. For best results the spray pattern should cover one deck board per pass. Use caution not to damage the material and always take the proper safety precautions when operating a power washer.

For heavily soiled areas or to aid in the periodic maintenance a cleaner may be used in conjunction with power washing.

Cleaners that are recommended for use with XLM:

- Original Krud Kutter Concentrated Cleaner Degreaser/Stain Remover (www.krudkutter.com)
- DeckMax Professional Grade Cleaner Concentrate (www.deckmax.com)
- So-Safe Heavy Duty (www.sosafeusa.com)

For the best result and to prevent damage to the board please consider the following:

- It is best to complete cleaning during the early morning or evening hours when the board surface is cool to prevent cleaners from drying/evaporating on the deck surface.
- When applying cleaners, spray the boards with power washer or garden hose to pre-wet the board surface.
- Follow the manufacturer's dilution and application instructions
- It is important to thoroughly remove all cleaner from the board surface. It is recommended to use a power washer according to the instructions above for XLM periodic maintenance cleaning.

TimberTech does not recommend the use of rubber or vinyl products (welcome mats, planters, etc.) on XLM deck planks. A reaction can occur that causes discoloration of the decking under the rubber/vinyl product. This is a common caution for vinyl decking products.

To clean Earthwood Evolutions, and XLM, we recommend the following methods:

*Keeping an unsoiled deck surface will make cleanup after a spill much easier.

1. Immediately wipe the soiled area and remove as much of the spill as possible.
2. If the spill consists of an abrasive substance, blot the spill. Do not rub.
3. Soak the stained area with warm water and blot up with a soft towel.
4. If the stain is still evident, mix a solution of mild dishwashing detergent and warm water in a small bucket.
5. Using a clean towel or soft sponge, apply the soapy solution to the stain and allow to stand for 3 minutes.
6. After the stain has soaked attempt to wipe with a clean towel or sponge.

For periodic maintenance cleaning, rinse deck thoroughly. A soap and water solution can be used as needed.

Ice and Snow

For ice removal, either rock salt or calcium chloride may be used without damage to the surface. However, either of these products may leave a white residue, which may be removed by either rinsing with water or a mild soap/water solution. Use care and caution to not damage the surface of your deck, a plastic shovel may be used when removing snow or ice off of it.

Painting/Staining/Sealing

Although not recommended, TwinFinish, ReliaBoard and BuilderBoard may be painted or stained. Once the product is painted, stained or sealed, subsequent applications will be necessary to maintain appearance. TimberTech does not guarantee the performance of anything applied to the product.

Wait approximately 8-10 weeks or until the product has completed its weathering process before painting or staining. Clean your TimberTech surface prior to applying paint or stain. Never paint or stain over surfaces that may contain dirt, or mildew. Always apply paints and sealers in accordance with the manufacturers' application instructions.

Stains and sealers that are recommended for use with the above products are:

- **Bravo! Composite Deck Rejuvenator and Protectant (www.encorecoatings.com)**
- **Cabot Clear Solution-Oil Based (cabotstain.com)**
- **Weatherall UV Guard Deck and Fence Coating (weatherall.com)**
- **Cabot Australian Timber Oil (cabotstain.com)**

Dirt, Grime, Tannin and Mildew Stains

TimberTech products are formulated to inhibit mildew growth and minimize staining. Rinse off your TimberTech products periodically with a hose. Even if it appears clean, it is important to prevent build-up of pollen/debris. Mildew stains may occur where moisture, pollens, and/or dirt are present. Mildew needs a food source to grow, which can be grass, pollens, dirt, debris, wood and wood resins.

Maintaining a clean, dry surface is the best method for combating mildew. Ensure that water drains effectively from your deck. Keep weep holes clear and unclogged on TimberTech Floorizon planks. For TimberTech XLM, Earthwood Evolutions, TwinFinish, DockSider and ReliaBoard, be sure that gaps exist between planks to allow for drainage.

Like any wood-based product, TimberTech's wood-plastic composite products (Floorizon, TwinFinish and DockSider, and ReliaBoard) may experience a naturally occurring process called Extractive Bleeding. This process may cause a temporary discoloration that will weather away. In most cases the weathering process takes 8-10 weeks but could vary depending on location and specific product application such as a covered porch.

If the stains have set on TwinFinish, ReliaBoard, or DockSider planks, you may want to use fine sandpaper and sand lightly followed by a wire brush to re-grain the decking. Always follow the wood grain finish of the plank. The sanded area will weather back in approximately 8-10 weeks but can very depending on location and specific application.

Do not apply this method to Earthwood Evolutions planks, XLM planks, or BuilderBoard.

Cleaners that are recommended for periodic cleaning or use with TwinFinish, DockSider, ReliaBoard, BuilderBoard, TimberTech are:

- **Super Deck Composite Deck Cleaner (superdeck.com)**
- **Corte Clean (corteclean.com)**
- **E Z Off Composite Wood Cleaner (sunbritesupply.com)**
- **Thompson's Water Seal—Oxy Action (thompsonswaterseal.com)**

Spot Stains

Many stains can be cleaned with soap and water. If the stains have set, the following cleaners have been found to remove or reduce the stains. Always follow the manufacturer's instructions to achieve maximum results. Areas cleaned may lighten; this will require 8-10 weeks exposure to the sun to match the remaining product.

TwinFinish, ReliaBoard, DockSider and BuilderBoard:

Tree Sap
- Krud Kutter (krudkutter.com)
- Simple Green (simplegreen.com)

Spray Paint
- Lift Off #4 (liftoffinc.com)

Oil, Grease
- Krud Cutter (krudcutter.com)
- Oil Eater (oileater.com)

BBQ, Ketchup, Mustard, Jelly and Jam
- Krud Cutter (krudcutter.com)

Wine
- Wine Away (wineaway.com)

Kool-Aid
- Oxi Clean (oxiclean.com)

Scratches, Nicks, Cuts and Grooves

TwinFinish, ReliaBoard, DockSider, and TwinFascia

Scratches, nicks, cuts and grooves can be eliminated by using a wire brush. Brush in the direction of the grain of the product. The brushed area will weather back in approximately 8-10 weeks.

TimberTech Code Listings

Once a product is tested by an independent lab, an application and report is submitted to one of several agencies that provide listings for building products that meet the requirements of Acceptance Criteria 174 (AC 174) as set forth by the International Code Council Evaluation Service (ICC-ES). TimberTech currently has listings from the ICC-ES and Architectural Testing Inc. The following TimberTech reports on code compliance are available to download on www.timbertech.com.

ICC Evaluation Service, Inc.

ICC ESR-1400
- Ornamental Rail System

ATI Architectural Testing, Inc.

CCRR-0114
- RadianceRail

CCRR-0129
- BuilderRail

CCRR-0128
- DockSider
- Earthwood Grooved & Solid
- TwinFinish Grooved & Solid
- Floorizon
- ReliaBoard
- XLM Grooved & Solid
- Earthwood Evolutions Grooved & Solid

Canadian Construction Materials Centre

CCMC 13303-R
- Floorizon Plank

CCMC 13304-R
- TwinFinish Plank
- Earthwood Plank

Fire Resistant Decking

Fire regulations and codes continue to become more important in the building industry. TimberTech is committed to manufacturing products that are compliant with these requirements and safe for our customers.

TimberTech Decking Meets California Fire Codes*

Based on extensive testing, the following TimberTech products meet the California State Fire Marshal and San Diego County requirements for use in the Wildland Urban Interface (WUI)** areas:

- XLM® All Colors: Class B Flame Spread Rating***
- Earthwood®: All colors; Class B Flame Spread Rating
- TwinFinish®: All colors; Class B Flame Spread Rating
- DockSider™: All colors; Class B Flame Spread Rating
- ReliaBoard™: All colors; Class B Flame Spread Rating
- Earthwood Evolutions Natural & Tropical™: Currently in Testing*

Earthwood, TwinFinish, and DockSider plank must be installed with a 1/8” gap to be in compliance in California.

*View the technical information on www.timbertech.com for most current fire code classifications.

**A listing of TimberTech compliant products is available in the Wildland Urban Interface Compliance Handbook published by the State Fire Marshals office in California. The handbook can be viewed online at http://www.osfm.fire.ca.gov/structureengineer/pdf/bml/wuiproducts.pdf.

***Currently in testing for San Diego County

TimberTech Material Properties[1]

TimberTech Material Properties[1]			
PROPERTY	Standard	RESULTS	RESULTS (Metric)
Flame Spread Index	ASTM E84	70	70
Earthwood Evolutions		85	85
	CAN/ULC S102.2	61	61
Smoke Development	ASTM E84	200	200
Earthwood Evolutions	ASTM E84	450	450
	CAN/ULC S102.2	351	351
Burning Brand	E108-modified	Class B[2]	
	San Diego County	Pass[3]	
UnderDeck Test	San Diego County	Pass[3]	
	CA SFM 12-7-4	Pass[3]	
Flash Point	ASTM D1929	651°F	344°C
Spontanious Ignition	ASTM D1929	788°F	420°C
Coefficient of Thermal Expansion			
width	ASTM D696	3.4x10-5 in/in/F°	6.1x10-5 mm/mm/°c
length		2.0 x 10-5 in/in/F°	3.6 x 10-5 mm/mm/°c
Floorizon Plank			
Flexural Stiffness[4]		426,508 lb·in^2	1,224,000 kN·mm^2
Moment Capacity[4]		2,548 in·lb	287,900 N·mm
Earthwood Evolutions			
Flexural Stiffness[4]		218900 lb·in^2	628,203 kN·mm^2
Moment Capacity[4]		2510 in·lb	283,592 N·mm
TwinFinish			
Flexural Stiffness[4]	ASTM D 6109	292052 lb·in^2	838,136 kN·mm^2
Moment Capacity[4]		2669 in·lb	301,557 N·mm
ReliaBoard			
Flexural Stiffness[4]		207046 lb·in^2	595,218 kN·mm^2
Moment Capacity[4]		2057 in·lb	232,410 N·mm
DockSider			
Flexural Stiffness[4]		619200 lb·in^2	1,776,993 kN·mm^2
Moment Capacity[4]		4536 in·lb	512,499 N·mm
Compression Parallel to Extrusion Direction[4]	ASTM D 143	2685 psi	18.5 MPA
Compression Perpendicular to Extrusion Direction[4]	ASTM D 143	4649 psi	32.0 Mpa
Tensile[4]	ASTM D 638	1734 psi	11.9 Mpa
Shear[4]	ASTM D 143	1274 psi	8.8 Mpa
HDT 264 (psi)	ASTM D 648	206°F	1.82MPA / 96.7°C
Vicat 1 kg	ASTM D 1525	274°F	134.4°C
Shore D Hardness	ASTM D 2240	D85	D85
Specific Gravity gm/cc[3]	ASTM D 792	1.2	1.2
Termite Resistance	ASTM D 3345	Equivalent to preservative treated lumber	
Fungus Resistance	ASTM D 1413	rating = no decay	
(brown and white rot fungi)			
Coefficient of Friction			
Brushed Surface			
dry		0.77	
wet		0.56	
VertiGrain			
dry		0.63	
wet	ASTM F1679	0.55	
WoodGrain			
dry		0.54	
wet		0.43	
Earthwood Evolutions[5]			
dry		0.50	
wet		0.45	
Water Absorption	ASTM D1037		
%mass		<1.29%	<1.29%

1)All decking profiles with exception of XLM.

2) Comparable to wood.

3). Does not include Floorizon or Earthwood Evolutions planking. Please see webiste for most current information.

4) Mean ulitmate vaules for comparison only.

5) Values based on ASTM D2394 also available

XLM Material Properties[1]

XLM TimberTech Material Properties [1]			
PROPERTY	ASTM	RESULTS	RESULTS (Metric)
Flame Spread	E84	30	30
	CA SFM 12-7-4	Pass [2]	
Coefficient of Thermal Expansion	ASTM D 696		
width		2.8×10^{-5} in/in/ºF	5.04×10^{-5} mm/mm/ºC
length		2.7×10^{-5} in/in/ºF	4.86×10^{-5} mm/mm/ºC
Flexural Stiffness (at 3% strain)	D 6109	105,000 lb·in^2	301332 kN·mm^2
Moment Capacity (at 3% strain)	D 6109	3783 in·lb	427422 N·mm
Wind Uplift Resistance CONCEALoc	E 330	173 psf	1.36 Mpa
Shore Hardness	D2240	D60	D60
Coefficient of Friction	F 1679	0.86 dry	
		0.83 wet	
Specific Gravity gm/cc	D792	≈0.71 g/cm^3	
(brown and white rot fungi)		Not Applicable	
Water Absorption %mass	D1037	<.8%	<.8%

1) Values for Strength and Stiffness are the mean ultimate values at 3% strain for comparison only.

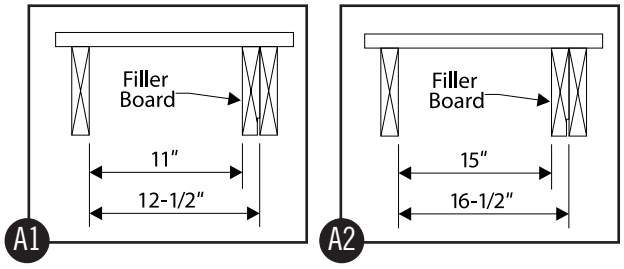
2) See Web site for updates.

TimberTech DrySpace- The Deck Drainage System

DrySpace is a revolutionary deck drainage system that collects the water that falls between the gaps in the planks and channels it away, leaving a virtually dry and functional space below.

Important Information

- DrySpace is designed for decks with 12" and 16" on center joist spacing. A 2x6 filler board can be installed to accommodate joist spacing up to 14" for the 12" on-center and 18" for the 16" on-center. The open space between on-center joists should not be more than 11" for the 12" on-center **(Fig. A1)**, and no more than 15" for the 16" on-center **(Fig. A2)**. **For decks with joist spacing greater than 14" on-center, the DrySpace kit for 16" on-center joists should be used, and for decks with joist spacing greater than 18" on-center.**
- Installation of DrySpace must stop a minimum of 3" before the Fascia. This allows water to exit the DrySpace panel and provide for ventilation.
- **Never install DrySpace over a beam.**
- DrySpace should not be spliced to achieve longer runs. Lapping the system could result in leakage.
- DrySpace should not be enclosed with a wall around the outside perimeter of the deck. It is not intended to be a water proof roof system.
- **DrySpace must be installed so that water runs away from the house.**
- Appliances, such as dryers and exhaust fans, should not be vented into the space between the deck surface and DrySpace panels.
- Installation is easiest with two people.



DrySpace Kits

Kit 12' Ledger	Length	Lbs. Unit	O.C. V-Panels		Combo Brackets		F-Bracket
			12"	16"	12'	16'	
12" O.C.	12'	504	6		7		1
16" O.C.	12'	546		6	7		1
16" O.C.	16'	738		6		7	1

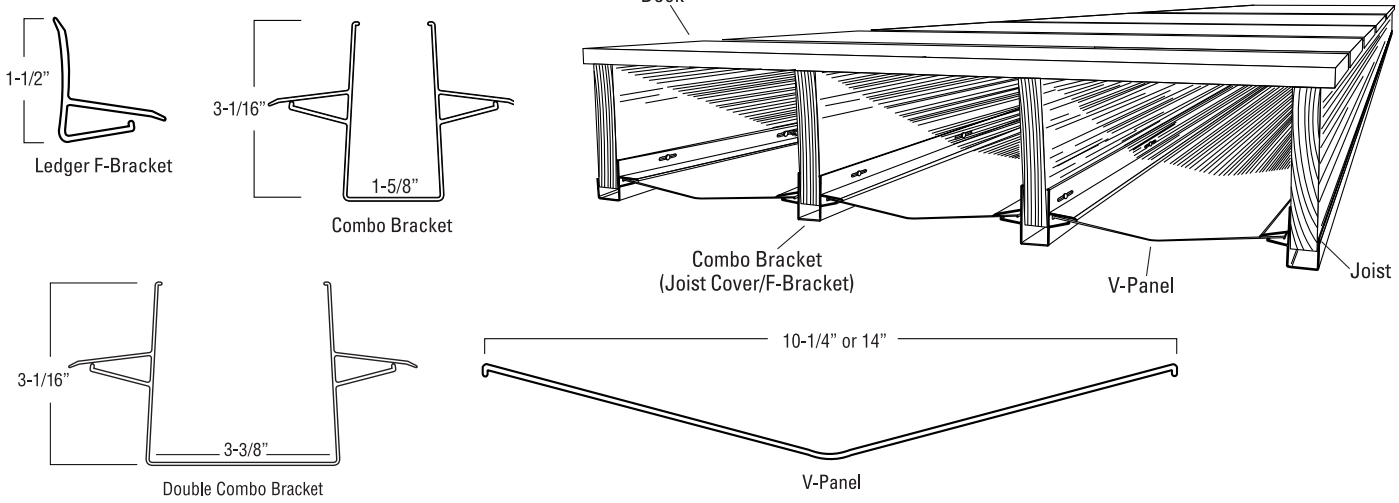
Also Available in Bulk

Components	Length	Qty./ Carton	Lbs./ Carton
12" O.C Panels	12'	12	53
12" O.C Panels	16'	12	70
16" O.C. Panels	12'	12	74
16" O.C. Panels	16'	12	98
Combo Brackets	12'	7	43
Combo Brackets	16'	7	57
Ledger F-Brackets	12'	20	50
Double Combo Bracket	16'	5	48

Tools & Materials Needed

- Safety Glasses
- Chalk Line
- Hammer
- Metal Snips
- Square
- Two Putty Knives
- Gloves
- Utility Knife
- Butyl Rubber Tape
- Tin Flashing
- Pliers
- Two Step Ladders
- Tape Measure
- 1" Hot Dipped Galvanized Roofing Nails or 1" Deck Screws (for Treated Lumber)

For Decks With 12" and 16" On-center Joist Spacing



Installation for Decks with 12” and 16” On-Center Joist Spacing

Determine the correct installation pitch

DrySpace must be installed with a pitch of 1/8” per foot **(Fig. B)**. Mark the correct pitch on each side of the joist with a chalk line. Measure from the bottom of the joist **(Fig. C)**. A 16’ long Combo Bracket installation will have an overall downward pitch of 2” from the house to the front of the deck. **The pitch must be directed away from the house.**

Ledger F-Bracket installation

Cut the Ledger F-Bracket 1/4” shorter than the joist opening. Measure 1-1/2” from the bottom of the joist **(Fig. E)**; then fasten the Ledger F-Bracket to the ledger board by driving 1” hot dipped galvanized (meet ASTM A 153 class D are acceptable) roofing nails (or deck screws) in the center of the nail slots. Do not overdrive the fastener, but make sure the Ledger F-Bracket is firmly secured.

Install Combo Brackets

NOTE: The Combo Bracket includes integral brackets on each side to insert and hold the V-Panel. Bracket must stop at beam.

- Measure bracket length, then cut the DrySpace Combo Bracket 1” shorter than the joist length. **NOTE: To ensure a straight clean cut, place a scrap piece of 2x4 wood inside the Combo Bracket. Cut with a miter saw (Fig. D).**
- Slide each DrySpace Combo Bracket over the joist bottom. Make sure the integral V-Panel Brackets on the outside of the Combo Bracket overlap the Ledger F-Bracket **(Fig. E)**. Slide the lower leg of the Ledger F-Bracket into the Combo Bracket outside V-Panel Brackets. Align the top edge to the pitch chalk line.
- Nail the Combo Bracket in place with 1” hot dipped galvanized (meet ASTM A 153 class D are acceptable) roofing nails (or deck screws) in the provided nail slots. Nail both sides of the Combo Bracket. **NOTE: Nail tight, but don’t overdrive the nail.**
- For double joists use DrySpace Double Combo Bracket and follow steps above. Outside Combo Bracket installation.
- For the two outside deck brackets, the outside integral V-PanelBracket must be removed. Trim what will be the outside portion of the Combo Bracket by making a score line under the V-Panel Bracket with a utility knife **(Fig. F)**, then snap off the section with the integral V-Panel Bracket **(Fig. G)**. Install the trimmed Combo Bracket for the inside portion of the bracket **(Fig. H)**. This piece can be trimmed with a piece of lumber.

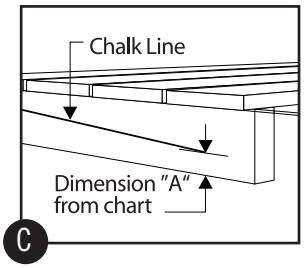
NOTE: Refer to timbertech.com for installation recommendations for beams and ceiling fans.

Custom Double and Triple Combo Brackets

- Remove any nails or obstructions that might be in the bottom 1-3/4” of the doubled joist. Make a 1-1/2” deep saw cut along the entire bottom of the double joist **(Fig. I)**. Trim what will be the inside leg of two Combo Brackets just below the brackets for V-Panel installation **(Fig. J)**. **Note: Notch (with a utility knife) 1-1/2” of both Combo Bracket legs near each end. Notching the legs will help lock the combined Combo Brackets in the saw cut at both ends of the cut. Check the fit of the trimmed Combo Brackets.** Tape the two cut legs together with butyl rubber tape to create a sealed joint **(Fig. K)**, then install into the saw cut. Make sure the Combo Brackets follow the chalk pitch line. Nail in place. **NOTE: Decks with a triple joist can be covered using the same method only with three Combo Brackets.**

Joist Length	Dimension “A”
6'	2-1/4"
8'	2"
10'	1-3/4"
12'	1-1/2"
14'	1-1/4"
16'	1"

B



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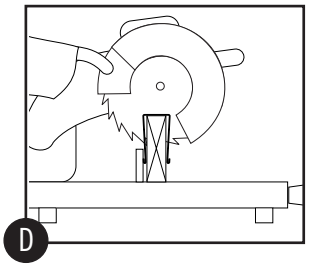
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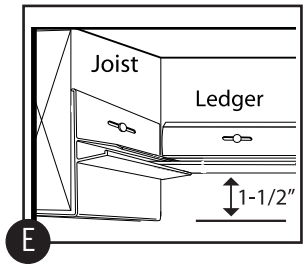

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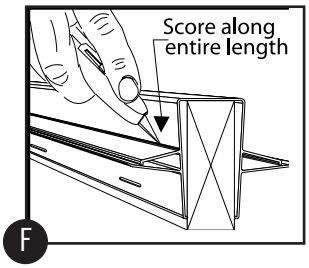

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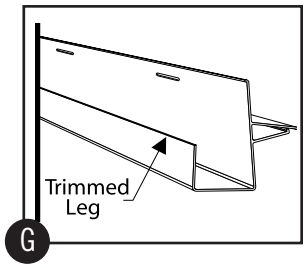

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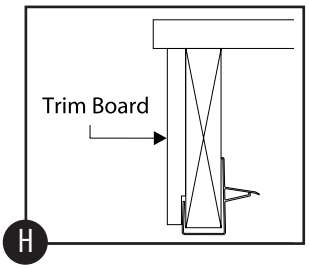

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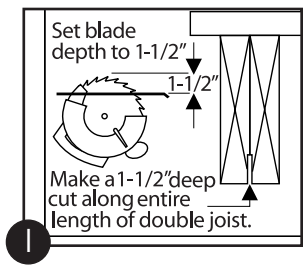

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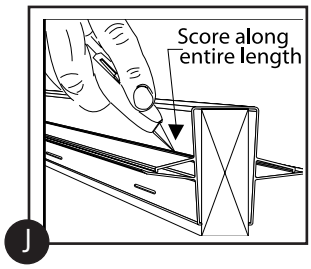

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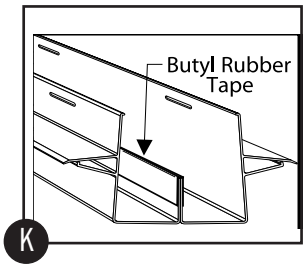


K

- Apply butyl rubber tape **(Fig. L)** to the following areas:
  1) **Corners where the F-Brackets overlap**
  2) **Along the top edge of the Ledger F-Bracket making sure to cover the F-Bracket nail slots**

V-Panel installation

- Measure, then cut each V-Panel 3" shorter than the joist to allow for drainage. **Note: To prevent water from running back up the bottom side of the panel and Combo Bracket, crimp the drainage ends of the V-Panel and Combo Bracket downward with pliers (Fig. M).**
- First install the V-Panel that will be anchored in the Ledger F-Bracket by inserting one panel edge into one of the Joist Cover's outside brackets. Next flex the panel to insert the opposite edge into the other Combo Bracket, then push the rest of the V-Panel in place.
- To insert the V-Panel into the Ledger F-Bracket, place a putty knife in each corner where the Combo Bracket's outside bracket and Ledger F-Bracket overlap **(Fig. N)**. Place a scrap piece of 2x4 lumber against the open edge of the V-Panel and tap with a hammer. **NOTE: The 2x4 protects the V-Panel edge from damage. V-Panels must stop at the beam.**
- To collect and drain away water an optional vinyl or aluminum gutter can be installed **(see Step 6 - Gutter installation).**

Faced with a smaller joist opening?

- If the joist opening **(Fig. A)** is less than 14-1/2", the V-Panel must be trimmed to 1/2" less than the joist opening dimension. Score one side of the V-Panel with a utility knife, then snap the extra panel width off. Should the joist opening be 12" or less, trim an equal amount of material from each side of the V-Panel.
- Use pliers to crimp the trimmed edges of the V-Panel downward every 6" along the cut line **(Fig. O)** to provide anchor notches when the V-Panel is installed in the Combo Bracket.

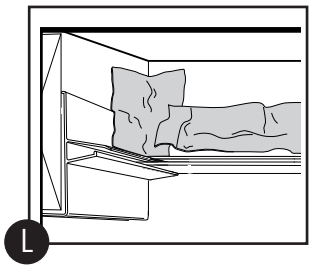
Best practice recommendation: Install tin flashing under first deck boards

For best results, install tin flashing under the length of the two deck boards closest to the house **(Fig. P)**. This will assure that water is pushed out into the V-Panels below. Flashing must be compatible for use with treated lumber or installed with protective barrier. Consult your local building/home improvement center.

Gutter installation

An optional gutter and downspout can be installed with DrySpace. Gutters must be installed at support beams to collect water from the V-Panels. Each project will have different requirements. The most common installations are shown **(Figs. Q and R)**. A gutter can also be installed along the ledger board to collect water from between the ledger board and house and between the ledger board and joist ends. Standard vinyl or aluminum gutters and downspouts can be used. These are readily available at lumberyards.

NOTE: Gutter, downspout and accessories are not included with the DrySpace system.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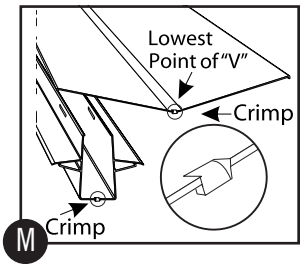

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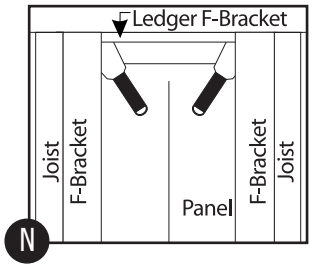

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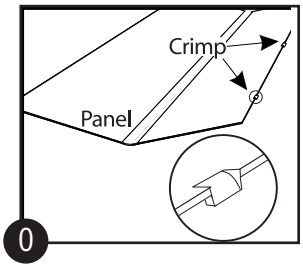

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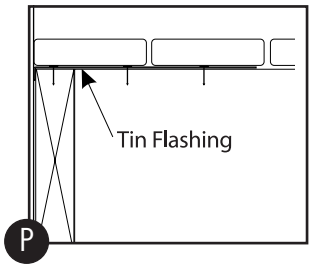

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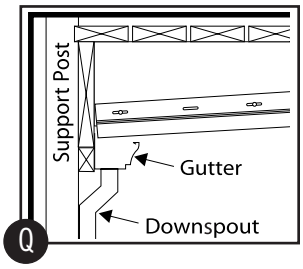

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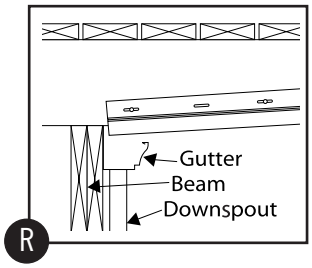

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Crane Plastics Manufacturing's use of the mark DRYSPACE is with consent of DrySpace, Inc., in Cedar Rapids, Iowa. Crane Plastics Manufacturing and DrySpace Inc., are not affiliated in any way. Neither company warrants the goods or services of the other.

25-Year Limited Fade and Stain Warranty

Earthwood Evolutions decking, fascia, and riser

Statement of Warranty: This warranty is given to the original residential purchaser ("Purchaser"), of TimberTech Limited ("TimberTech") Earthwood Evolutions decking (the "Product"). For purposes of this warranty, a residential Purchaser shall refer to a single-family residential homeowner.

TimberTech warrants to Purchaser that, for a period of twenty-five (25) years from the date of the original consumer purchase (the "Term"), under normal use and service conditions:

(1) The Product's color will not fade from light and weathering exposure, as measured by a color change of more than 5 Delta E (CIE) units. While the Product is designed to resist fading, no material is fade proof when subjected to years of exposure to ultraviolet (UV) rays and the elements.

(2) The Product will resist permanent staining from food and beverage items that may be spilled onto the surface of the Product, including items such as condiments (barbecue sauce, ketchup, mustard, mayonnaise), salad dressing and salad oils, grease, tea, wine, coffee, fruit punch, sodas and other food and beverage related items that would typically be present on a residential deck, provided that such substances are removed from the Product with soap and water or mild household cleaners after no more than one (1) week of exposure of the substances to the surface of the Product.

Notwithstanding the foregoing, TimberTech does not warrant that the Product is stain-proof, and does not warrant stain resistance resulting from spilled or otherwise applied food and beverage substances which are not properly cleaned as provided above within one (1) week of exposure. In addition, this warranty does not cover any staining or damage to the Product resulting from abrasive compounds of acidic or basic pH, paints or stains, strong solvents, metallic rust or other abnormal residential deck use items, and non-food and non-beverage substances, including, but not limited to, biocides, fungicides, plant foods or other bactericides.

All warranties are subject to the exclusions, limitations and restrictions set forth in the foregoing paragraph and below.

Standard TimberTech 25 Year Limited Residential Warranty. This warranty is in addition to the standard TimberTech Limited 25 Year Limited Residential Warranty that applies to TimberTech alternative decking materials.

Obtaining Warranty Performance: Purchaser must do as follows in order to make a claim under this warranty:

Claims Regarding Stain-Resistance: If the Purchaser is making a claim relating to the warranty on stain resistance, Purchaser must do all of the following (in addition to the procedures set forth below for All Claims):

1. Attempt to clean the affected area of the Product by using the cleaning procedures described above within one (1) week of exposure of the food or beverage to the surface of the Product.

2. If, after completing step 1 above, the affected area remains reasonably unsatisfactory, then Purchaser must have the affected area of the Product cleaned by a professional deck cleaner at Purchaser's expense.

3. If, after completing steps 1 and 2 above, the affected area still remains reasonably unsatisfactory, Purchaser may make a claim under this warranty as provided herein, provided that such claim is made within thirty (30) days after the professional cleaning is completed.

All Claims: Purchaser, must no later than the end of the Term, send to TimberTech proof of purchase, a description and photographs of the affected area of the Product, and, if the claim relates to the warranty on stain resistance, and reasonable proof of compliance with the requirements set forth above under "Claims Regarding Stain-Resistance," to the following address:

TimberTech Limited

894 Prairie Avenue

Wilmington, Ohio 45177

Attn: Claims Department

TimberTech reserves the right to request additional information in connection with the warranty claim.

After reviewing all information, TimberTech will make a determination regarding the validity of the claim submitted. If TimberTech determines that the Purchaser's claim is valid, TimberTech will, at its sole option, either replace the affected item or refund the portion of the purchase price paid by the Purchaser for such affected item (not including the cost of its initial installation). Replacement material will be provided that is as close as possible in color, design and quality as the replaced material, but TimberTech does not guarantee an exact match as colors and design may change.

If Purchaser makes a valid warranty claim hereunder during years eleven (11) through twenty-five (25) after the original purchase, then Purchaser's recovery will be prorated as indicated below. If TimberTech is providing replacement materials, it may elect to replace the percentage listed below of boards otherwise meeting the requirements for a claim; if TimberTech is refunding the purchase price, it may elect to refund the percentage listed below of the purchase price of boards otherwise meeting the requirements for a claim.

(Continued)

25-Year Limited Fade and Stain Warranty (continued)

Earthwood Evolutions decking, fascia, and riser

Year of Warranty Claim	Percentage Recovery
11	80%
12	80%
13	80%
14	60%
15	60%
16	60%
17	40%
18	40%

Year of Warranty Claim	Percentage Recovery
19	40%
20	20%
21	20%
22	20%
23	10%
24	10%
25	10%

This warranty shall not cover, and TimberTech shall not be responsible for, costs and expenses incurred with respect to the removal of affected Product or the installation of replacement materials, including but not limited to, labor and freight. The foregoing remedies are the SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY.

Transfer of Warranty: This warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by Purchaser, to a subsequent buyer of the property upon which the Product was originally installed.

Exclusions from Warranty Coverage:

TimberTech does not warrant against and is not responsible for, and no implied warranty shall be deemed to cover, any product failure, product malfunction, condition or damages attributable to the following: (1) improper installation of the Product and/or failure to abide by TimberTech's installation guidelines, including but not limited to improper gapping; (2) use of the Product beyond normal residential use, or in an application not recommended by the TimberTech installation guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which the Product is installed; (4) exposure to, or direct or indirect contact with extreme heat sources (over 250 degrees), which may damage the surface of the product and cause the Product to fade; (5) any act of God (such as flooding, hurricane, earthquake, lightning, etc.) or environmental condition (such as air pollution, mold, mildew, etc.), (6) improper handling, storage, abuse or neglect of the Product by Purchaser, the transferee or third parties; (7) any fading or staining not on the surface of the Product (i.e., the underside or the ends of the Product); or (8) ordinary wear and tear.

In addition, this warranty will be voided if (1) paint, stain or other coating materials are applied to the Product, or (2) the surface of the Product has been damaged or punctured, including as a result of contact with shovels or similar sharp-edged tools. Such tools should not be used under any circumstance to remove snow, ice, or other debris from the surface of the product.

Purchaser is solely responsible for determining the effectiveness, fitness, suitability and safety of the Product in connection with its use in any particular application.

Limitations: DISCLAIMER OF WARRANTIES: EXCEPT FOR THE EXPRESS WRITTEN WARRANTY CONTAINED HEREIN AND IN THE TIMBERTECH LIMITED 25 YEAR LIMITED RESIDENTIAL WARRANTY, TIMBERTECH MAKES NO OTHER WARRANTIES, GUARANTEES OR INDEMNITIES, WHETHER EXPRESS OR IMPLIED, ARISING BY LAW, COURSE OF DEALING, USAGE OF TRADE, CUSTOM OR OTHERWISE, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH OTHER WARRANTIES, GUARANTEES AND INDEMNITIES ARE HEREBY DISCLAIMED, OVERRIDDEN AND EXCLUDED FROM THIS TRANSACTION.

Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.

LIMITATION OF REMEDIES AND EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES: TIMBERTECH'S LIABILITIES ARE LIMITED SOLELY AND EXCLUSIVELY TO THE OBLIGATIONS SPECIFICALLY UNDERTAKEN HEREIN, AND UNDER NO CIRCUMSTANCES WILL TIMBERTECH BE LIABLE OR OBLIGATED FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR ANY OTHER DAMAGES OF ANY KIND WHATSOEVER (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOST SALES, LOSS OF GOODWILL, USE OF MONEY, USE OF GOODS, STOPPAGE OF WORK, OR IMPAIRMENT OF ASSETS), WHETHER FORESEEABLE OR UNFORESEEABLE, ARISING OUT OF BREACH OR FAILURE OF EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, FRAUD, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, EXCEPT AND ONLY TO THE EXTENT THIS LIMITATION IS SPECIFICALLY PRECLUDED BY APPLICABLE LAW OF MANDATORY APPLICATION. TIMBERTECH'S LIABILITY WITH RESPECT TO DEFECTIVE PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Miscellaneous: This writing is understood and intended to be the final expression of the parties' agreement and is a complete and exclusive statement of the terms and conditions with respect thereto, superseding all prior agreements or representations, oral or written, and all other communication between the parties relating to the subject matter of this agreement. This warranty may not be altered or amended except in a written instrument signed by TimberTech and Purchaser or permitted transferee. No agent, employee or any other party is authorized to make any warranty in addition to that made in this agreement and TimberTech shall not be bound by any such statements other than those contained in this warranty.

This warranty is effective for purchases by residential purchasers made on or after January 1, 2011.

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25-Year Limited Residential Warranty
10-Year Limited Commercial Warranty

Alternative decking materials, rail systems, accessories and the DrySpace deck drainage system

Statement of Warranty: This warranty is given to the original purchaser, residential or commercial as the case may be ("Purchaser"), of TimberTech alternative decking materials, rail systems (excluding all metal baluster components of such rail systems and DeckLites, which are covered under separate warranties), and accessories (individually and collectively "Decking Materials") and the DrySpace deck drainage system ("DrySpace" and, collectively with the Decking Materials, the "TimberTech Products"). This warranty does not extend to fasteners that are not supplied by TimberTech. For purposes of this warranty, a residential Purchaser shall refer to a single-family residential homeowner and a commercial Purchaser shall refer to any Purchaser other than a single-family residential homeowner.

TimberTech Limited ("TimberTech") warrants to Purchaser that, for a period of twenty-five (25) years (Residential) & ten (10) years (Commercial) from the date of the original purchase, residential or commercial as the case may be, (the "Term"), under normal use and service conditions, that: (1) the Decking Materials will be free from material defects in workmanship and materials, and will not check, split, splinter, rot or suffer structural damage from termites or fungal decay; and (2) DrySpace will not peel, blister, pit, flake, crack or corrode as a result of manufacturing defects, or as a result of exposure to ocean air (salt spray).

All warranties are subject to the exclusions, limitations and restrictions set forth below.

Obtaining Warranty Performance: If Purchaser discovers a defect in the TimberTech Products during the Term, Purchaser must, within thirty (30) days from the discovery of the alleged defect but **no later than the end of the Term**, notify TimberTech in writing, at the following address:

TimberTech Limited
894 Prairie Avenue
Wilmington, Ohio 45177
Attn: Claims Department

Purchaser must include in this notification proof of purchase and a statement explaining the defect. TimberTech may request additional information. After reviewing all information, TimberTech will make a determination regarding the validity of such claim. If TimberTech determines that Purchaser's claim is valid, TimberTech will, at its option, either replace the defective TimberTech Products or refund the portion of the purchase price paid by Purchaser for such defective TimberTech Products (not including the cost of its initial installation).

If a residential Purchaser makes a valid warranty claim hereunder during years eleven (11) through twenty-five (25) after the original purchase, then the residential Purchaser's recovery will be prorated as indicated below. If TimberTech is providing replacement materials, it may elect to replace the percentage listed below of boards otherwise meeting the requirements for a claim; if TimberTech is refunding the purchase price, it may elect to refund the percentage listed below of the purchase price of boards otherwise meeting the requirements for a claim.

Year of Claim	Recovery
11	80%
12	80%
13	80%
14	60%
15	60%

Year of Claim	Recovery
16	60%
17	40%
18	40%
19	40%
20	20%

Year of Claim	Recovery
21	20%
22	20%
23	10%
24	10%
25	10%

This warranty shall not cover, and TimberTech shall not be responsible for, costs and expenses incurred with respect to the removal of the defective TimberTech Products or the installation of replacement materials, including but not limited to, labor and freight. The foregoing remedies are the SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY.

Transfer of Warranty: This warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by Purchaser, to a subsequent buyer of the property upon which the TimberTech Products were originally installed.

Exclusions from Warranty Coverage: TimberTech does not warrant against and is not responsible for, and no implied warranty shall be deemed to cover, any product failure, product malfunction, or damages attributable to: (1) improper installation of the TimberTech Products and/or failure to abide by TimberTech's installation guidelines, including but not limited to improper gapping; (2) use of TimberTech Products beyond normal use, or in an application not recommended by the TimberTech installation guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which the TimberTech Products are installed; (4) any act of God (such as flooding, hurricane, earthquake, lightning, etc.), environmental condition (such as air pollution, mold, mildew, etc.), or staining from foreign substances (such as dirt, grease, oil, etc.); (5) variations or changes in color of TimberTech Products; (6) normal weathering due to exposure to sunlight, weather and atmosphere which can cause colored surfaces to, among other things, flake, chalk, or accumulate dirt or stains; (7) improper handling, storage, abuse or neglect of the TimberTech Products by Purchaser, the transferee or third parties; (8) any fasteners not supplied by TimberTech; or (9) minor dripping from DrySpace.

Purchaser is solely responsible for determining the effectiveness, fitness, suitability and safety of the TimberTech Products in connection with their use in any particular application.

Limitations: DISCLAIMER OF WARRANTIES: EXCEPT FOR (1) THE EXPRESS WRITTEN WARRANTY CONTAINED HEREIN, AND, (2) THE 25 YEAR LIMITED RESIDENTIAL FADE AND STAIN WARRANTY APPLICABLE TO EARTHWOOD EVOLUTIONS DECKING ONLY (WHICH IS IN ADDITION TO THE WARRANTY CONTAINED HEREIN), TIMBERTECH MAKES NO OTHER WARRANTIES, GUARANTEES OR INDEMNITIES, WHETHER EXPRESS OR IMPLIED, ARISING BY LAW, COURSE OF DEALING, USAGE OF TRADE, CUSTOM OR OTHERWISE, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH OTHER WARRANTIES, GUARANTEES AND INDEMNITIES ARE HEREBY DISCLAIMED, OVERRIDDEN AND EXCLUDED FROM THIS TRANSACTION FOR THE WARRANTY TERM AND BEYOND THE WARRANTY TERM.

Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.

LIMITATION OF REMEDIES AND EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES: TIMBERTECH'S LIABILITIES ARE LIMITED SOLELY AND EXCLUSIVELY TO THE OBLIGATIONS SPECIFICALLY UNDERTAKEN HEREIN, **AND UNDER NO CIRCUMSTANCES WILL TIMBERTECH BE LIABLE OR OBLIGATED FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR ANY OTHER DAMAGES OF ANY KIND WHATSOEVER** (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOST SALES, LOSS OF GOODWILL, USE OF MONEY, USE OF GOODS, STOPPAGE OF WORK, OR IMPAIRMENT OF ASSETS), WHETHER FORESEEABLE OR UNFORESEEABLE, ARISING OUT OF BREACH OR FAILURE OF EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, FRAUD, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, EXCEPT AND ONLY TO THE EXTENT THIS LIMITATION IS SPECIFICALLY PRECLUDED BY APPLICABLE LAW OF MANDATORY APPLICATION. TIMBERTECH'S LIABILITY WITH RESPECT TO DEFECTIVE PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Miscellaneous: This writing is understood and intended to be the final expression of the parties' agreement and is a complete and exclusive statement of the terms and conditions with respect thereto, superseding all prior agreements or representations, oral or written, and all other communication between the parties relating to the subject matter of this agreement. This warranty may not be altered or amended except in a written instrument signed by TimberTech and Purchaser or permitted transferee. No agent, employee or any other party is authorized to make any warranty in addition to that made in this agreement and TimberTech shall not be bound by any such statements other than those contained in this warranty.

This warranty shall only be applicable and enforceable in the United States of America.

This warranty is effective for purchases (residential or commercial, as the case may be) made on or after January 1, 2011.

Copyright (c) 2011 TimberTech.

TOPLoc™ 25-Year Residential Warranty Against Corrosion
TOPLoc™ 10-Year Commercial Warranty Against Corrosion

TOPLoc Fascia and Face Fastening

Statement of Warranty: This warranty is given to the original purchaser, residential or commercial as the case may be ("Purchaser"), of TimberTech TOPLoc™ exterior (i) ACQ Rated and Composite screws, and (ii) stainless steel screws (collectively, the "TOPLoc™ Screws"). For purposes of this warranty, a residential Purchaser shall refer to a single-family residential homeowner and a commercial Purchaser shall refer to any Purchaser other than a single-family residential homeowner.

TimberTech Limited ("TimberTech") warrants to Purchaser that, for a period of twenty-five (25) years (Residential) & ten (10) years (Commercial) from the date of the original purchase, residential or commercial as the case may be, (the "Term"), under normal use and service conditions, that the TOPLoc™ Screws will not corrode due to exposure to (i) normal environmental conditions, or (ii) corrosives contained in natural wood species, treated lumber, or plastic/wood composite decking material, or (iii) to exposure to chemicals used, as of January 1, 2007, in pressure treated lumber formulations designated as, ACQ, MCQ, Copper Quat, or Copper Azole types CBA-A and CA-B; provided, however, that TOPLoc™ ACQ Rated and Composite screws are not warranted for use on or near the water, including but not limited to, applications such as docks, boardwalks or piers (only TOPLoc™ stainless steel Screws are warranted for such applications).

All warranties are subject to the additional exclusions, limitations and restrictions set forth below.

Obtaining Warranty Performance: If Purchaser discovers a defect in the TOPLoc™ Screws during the Term, Purchaser must, within thirty (30) days from the discovery of the alleged defect but no later than the end of the Term, notify TimberTech in writing, at the following address:

TimberTech Limited
894 Prairie Avenue
Wilmington, Ohio 45177
Attn: Claims Department

Purchaser must include in this notification proof of purchase and a statement explaining the defect. TimberTech may request additional information. After reviewing all information, TimberTech will make a determination regarding the validity of such claim. For any claim that TimberTech determines to be valid, TimberTech will replace the defective TOPLoc™ Screws. It is the sole responsibility of Purchaser to arrange and to pay for the return to TimberTech of any TOPLoc™ Screws to which this warranty applies.

This warranty shall not cover, and TimberTech shall not be responsible for, costs and expenses incurred with respect to the removal of the defective TOPLoc™ Screws or the installation of replacement materials, including but not limited to, labor and freight. The foregoing remedy is the SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY.

Transfer of Warranty: This warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by Purchaser, to a subsequent buyer of the property upon which the TOPLoc™ Screws were originally installed.

Exclusions from Warranty Coverage: TimberTech does not warrant against and is not responsible for, and no implied warranty shall be deemed to cover, any product failure, product malfunction, or damages attributable to: (1) improper installation of the TOPLoc™ Screws and/or failure to abide by TimberTech's installation guidelines; or (2) use of TOPLoc™ Screws beyond normal use, or in an application not recommended by the TimberTech installation guidelines and local building codes.

Purchaser is solely responsible for determining the effectiveness, fitness, suitability and safety of the TOPLoc™ Screws in connection with their use in any particular application.

ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE TWENTY-FIVE YEAR DURATION OF THE RESIDENTIAL LIMITED WARRANTY AND ARE DISCLAIMED FOR ALL PERIODS THEREAFTER.

Limitations: DISCLAIMER OF WARRANTIES (RESIDENTIAL PURCHASER): EXCEPT FOR THE EXPRESS WRITTEN WARRANTY CONTAINED HEREIN, TIMBERTECH MAKES NO OTHER EXPRESS WARRANTIES, GUARANTEES OR INDEMNITIES, ARISING BY COURSE OF DEALING, USAGE OF TRADE OR CUSTOM, AND ALL SUCH OTHER EXPRESS WARRANTIES, GUARANTEES AND INDEMNITIES ARE HEREBY DISCLAIMED, OVERRIDDEN AND EXCLUDED FROM THIS TRANSACTION FOR THE WARRANTY TERM AND BEYOND THE WARRANTY TERM.

Limitations: DISCLAIMER OF WARRANTIES (COMMERCIAL PURCHASERS): EXCEPT FOR THE EXPRESS WRITTEN WARRANTY CONTAINED HEREIN, TIMBERTECH MAKES NO OTHER WARRANTIES, GUARANTEES OR INDEMNITIES, WHETHER EXPRESS OR IMPLIED, ARISING BY LAW, COURSE OF DEALING, USAGE OF TRADE, CUSTOM OR OTHERWISE, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH OTHER WARRANTIES, GUARANTEES AND INDEMNITIES ARE HEREBY DISCLAIMED, OVERRIDDEN AND EXCLUDED FROM THIS TRANSACTION FOR THE WARRANTY TERM AND BEYOND THE WARRANTY TERM.

Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.

LIMITATION OF REMEDIES AND EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES: TIMBERTECH'S LIABILITIES ARE LIMITED SOLELY AND EXCLUSIVELY TO THE OBLIGATIONS SPECIFICALLY UNDERTAKEN HEREIN, AND UNDER NO CIRCUMSTANCES WILL TIMBERTECH BE LIABLE OR OBLIGATED FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR ANY OTHER DAMAGES OF ANY KIND WHATSOEVER (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOST SALES, LOSS OF GOODWILL, USE OF MONEY, USE OF GOODS, STOPPAGE OF WORK, OR IMPAIRMENT OF ASSETS), WHETHER FORESEEABLE OR UNFORESEEABLE, ARISING OUT OF BREACH OR FAILURE OF EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, FRAUD, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, EXCEPT AND ONLY TO THE EXTENT THIS LIMITATION IS SPECIFICALLY PRECLUDED BY APPLICABLE LAW OF MANDATORY APPLICATION. TIMBERTECH'S LIABILITY WITH RESPECT TO DEFECTIVE PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS, AS DESCRIBED ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Miscellaneous: This writing is understood and intended to be the final expression of the parties' agreement and is a complete and exclusive statement of the terms and conditions with respect thereto, superseding all prior agreements or representations, oral or written, and all other communication between the parties relating to the subject matter of this agreement. This warranty may not be altered or amended except in a written instrument signed by TimberTech and Purchaser or permitted transferee. No agent, employee or any other party is authorized to make any warranty in addition to that made in this agreement and TimberTech shall not be bound by any such statements other than those contained in this warranty.

This warranty is effective for purchases (Residential or Commercial, as the case may be) made on or after January 1, 2011.

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Every TimberTech product is backed by exceptional customer service and a commitment to quality.

Decking, Railing & Fencing – TimberTech decking, railing and fencing products are backed by a 25-year limited warranty for residential applications and a 10-year limited warranty for commercial applications.*

TimberTech products are guaranteed against: • Termites • Decay • Checking • Rotting • Splitting • Splintering

* This does not include BuilderRail metal balusters which are covered by a 10-year limited warranty against cracking, peeling, blistering, and corrosion.

DeckLites – TimberTech DeckLites are covered by a 5-year limited warranty for residential applications.

DrySpace – TimberTech DrySpace has a 25-year residential limited warranty on products purchased on or after January 1, 2007. DrySpace products purchased prior to this date have a 5-year limited warranty.

To Make a Claim – To make a claim under either warranty, purchaser or the transferee, must send to TimberTech, within the warranty period referred to above, a description of the claimed defect and proof of purchase. Warranty Information Packets can be obtained from TimberTech.

TimberTech Limited • Attn: Claims Department
894 Prairie Avenue, Wilmington, Ohio 45177 Or call 1-800-307-7780

For a copy of TimberTech's complete warranty visit www.timbertech.com.

Warranty Registration is Easy

- The easiest way to register a warranty is to visit www.timbertech.com and select the Warranty & Care link, then select Register Online.
- You may prefer to fill out the Warranty Card below and mail it to TimberTech, accordingly to the instructions on the card.

Remember, to ensure your product is covered by the TimberTech Warranty it must be installed properly.

TimberTech LTD disclaims any liability or responsibility for the improper installation of this product. The purchaser is solely responsible for compliance with applicable local codes as to the deck's intended use. TimberTech recommends all designs be reviewed by a licensed architect, engineer or local building official before installation. TimberTech maintains a list of physical properties to assist the design professional.

Below is a chart showing which product each warranty covers. You can view warranty details online at www.timbertech.com:

- **Limited 25-Year Residential Warranty / Limited 10-Year Commercial Warranty**
  Decking: DockSider, Floorizon, Earthwood Evolutions, TwinFinish, XLM
  Railing: Ornamental Rail, RadianceRail, BuilderRail (excluding all metal baluster components of BuilderRail System)
  Fencing: All FenceScape a products
  Accessories: CONCEALoc, DrySpace
- **Limited 10-Year Warranty for Metal Baluster Components of BuilderRail System**
- **Limited 5-Year Warranty for DeckLites System**

TimberTech Customer: Please complete this warranty card and mail to:

TimberTech
894 Prairie Avenue
Wilmington, Ohio 45177
Attn: Warranty

This information will help us better serve your needs.
Please return warranty card within 30 days of receipt of product.

TimberTech® Less Work. More Life.

Name: _____ Purchase Date: _____

Street Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____

Country: _____ Phone: _____ : _____

Product Information:

Where was your product purchased? _____

How was your product installed? _____

☐ Contractor Name: _____ ☐ Self-Installed

Warranty Registration: Check the TimberTech product that you purchased:

Decking: ☐ Earthwood Evolutions™ Plank ☐ ReliaBoard™ Plank ☐ Accessories: _____
☐ Floorizon® Plank ☐ XLM® Plank
☐ DockSider™ Plank ☐ TwinFinish® Plank

Railing: ☐ RadianceRail® ☐ RadianceRail® Express ☐ Ornamental Rail ☐ BuilderRail® ☐ Evolutions™ Rail
☐ Metal Balusters ☐ Secure-Mount System ☐ ADA Hand Rail System ☐ CableRail

☐ **DrySpace™** ☐ **DeckLites®** ☐ **FenceScape®**

Demographic Information: Number of residents in household: _____

Number of household residents in the following age groups:

☐ 0-12 ☐ 13-18 ☐ 19-27 ☐ 28-39 ☐ 40-55 ☐ 55+

Average household income:

☐ Under $35,000 ☐ $35,000-50,000 ☐ $50,000-70,000 ☐ $70,000-95,000 ☐ $95,000+

It's not just a deck. It's TimberTech.

Visit timbertech.com or
call 1-800-307-7780 for more information.

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LIT-DECKINSTALL 09/12

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